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DP/PROJECTS/7249

ENGLISH

APPROVAL OF UNDP ASSISTANCE TO A PROJECT OF CAMBODIA

IPF:(1987-91) $ 81 629 000

(CMB/91/010) - Improvement of Air Traffic Control Services

Date of approval by the AC:[1/]	18 March 1992
Expected duration:	Two years
Proposed executing agency:	ICAO
Government implementing agency:	Supreme National Council of Cambodia (SNC) through the Department of Civil Aviation
Proposed UNDP contribution:	$2 365 600 Source of funds: IPF
Total UNDP budget:	$2 365 600

Project background

In 1975, the Department of Civil Aviation (DCA) in Cambodia was disbanded and all civil aviation documents destroyed. No DCA or airline staff of the pre-1975 period have been located. The Department was re-established in 1979 and managed by expatriate (Vietnamese) experts up to 1986. Since then it is managed by Cambodian nationals all of whom have received some (but not adequate) training both in Vietnam and the former Soviet Union but do not receive any follow-up training due to lack of experts. They are assisted by some personnel from the former Soviet Union in actual airport and airline operations. Many of these expatriates are leaving or have left. There are no proper manuals or written reference materials. The air traffic controllers (ATCs) are not "facility rated" and have little experience in controlling more than two or three aircrafts at a time. The absence of tower management guidelines and formalized procedures for aircraft operations in the controlled airspace, lack of skills to repair NAVAIDS and reliance on hand-drawn Non-Directional Beacon (NDB) Instrument Approach, all make for hazardous traffic management.

The situation is exacerbated by the severe lack of essential equipment, and whatever is available and in use is obsolete. For example, all tower equipment in the Pochentong airport (Phnom Penh) is very old (pre-1975) and in poor-to-unusable condition; there is no light gun in the tower, no hand-held binoculars for the controllers, no typewriters to maintain logs, no back-up power supply to meet frequent outrages in the city's power supply, no HF radio to contact distant or low flying aircraft, no rotation beacon and no visual approach landing aids; the two NDBs (primary and back up) located at the east end of the airport are old and reported by pilots as unreliable.

The air traffic operations in the main airport in Phnom Penh and other airports in the country are therefore below acceptable international standards and hazardous. Immediate remedial measures are needed to provide the essential safety of air operations, as traffic to and in Cambodia was already increased and is expected to grow exponentially in the near future with the present massive United Nations operations, as well as increased commercial activities with the external world now that peace has come to stay. To provide essential expertise to support the available personnel,

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[1/] **This Fact Sheet reflects the status of the project/revision at the time it was approved by the Action Committee; modifications to the project/revision may have occurred subsequently.**

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better train them on the job and provide more reliable, international standard traffic control mechanisms to start with and overtime to generally address improvement in all aspects of civil aviation in the country, the Government requested UNDP assistance under the present approval.

Description of project

The overall objective of the project is to restore the Cambodian Air Transportation Subsector to international standard in support of the rehabilitation and reconstruction of the country.

The immediate objectives of the project are to: (a) upgrade the air traffic control capability at the Phnom Penh airport in order to provide safe, orderly and efficient aerodrome and procedural approach control services in accordance with international standards and provide essential equipment to ensure safety of air traffic operations; and (b) improve air traffic control services to international standards at Battambang, Siem Reap and Stung Treng airports.

At the end of the project, ATC operational procedures and standard Instrument Approach procedures will have been established and published; administrative procedures will have been developed and published and a record keeping system will be in place at the Pochentong airport. At least seven ATC controllers, will have successfully completed formal on-the-job training (including English language) to internationally accepted "Facility Rating" standards, six ATC/controllers from other ATC towers throughout the country will have received Aviation English and ATC skills-refresher training and ten newly hired staff will have undergone Aviation English courses and licensing fellowship training in aerodrome and procedural approach control operations. The NDB NAVAIDS will be operating to international standards. A two-class-room Civil Aviation Training Centre will have been established in the Pochentong Control Tower Building and will have been equipped with a language laboratory, an ATC procedural simulator and other standard training/support equipment. Finally, obsolete equipment considered critical to flight safety will have been replaced at the Pochentong airport.

Inputs

UNDP will provide 24 work-months of services of a CTA/civil aviation advisor, three work-months of an equipment installation consultant, 1.5 work-months of an equipment specifications consultant, four work-months of an air traffic control procedure development consultant, two work-months fire service consultant, 22 work-months of an air traffic control manager, 22 work-months of an ATC instructor (I), 12 work-months of an ATC instructor (II), 24 work-months of a UNV Aviation English Instructor, 24 work-months of a UNV NAVAIDS technician/instructor; a sub-contract to obtain the services of an international flight calibration organization; 25 work-months of individual fellowships, 135 work-months of study tours and group training; expendable and non-expendable equipment; and miscellaneous costs.

Financial data

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Personnel	1 104 200
Subcontracts	39 200
Training	188 200
Equipment	997 000
Miscellaneous	37 000
Total	2 365 600

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